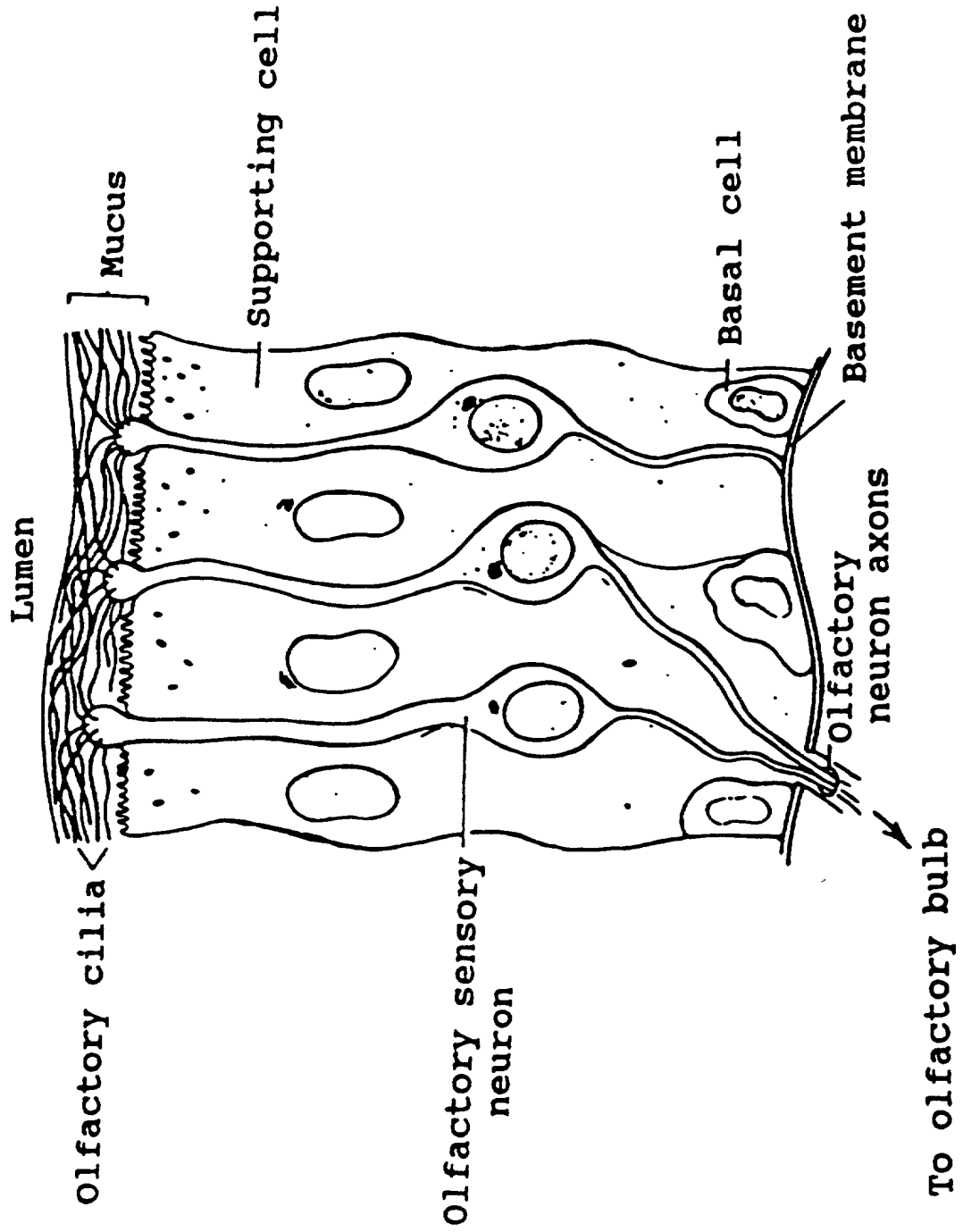


Figure 1A



105260-0000000000

Figure 2A

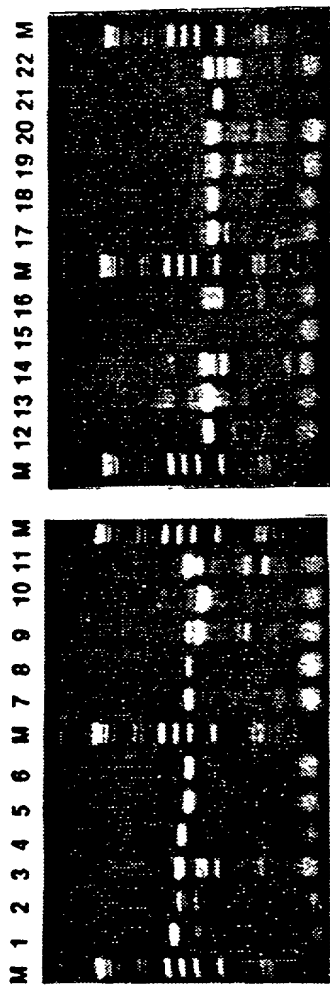


Figure 2B

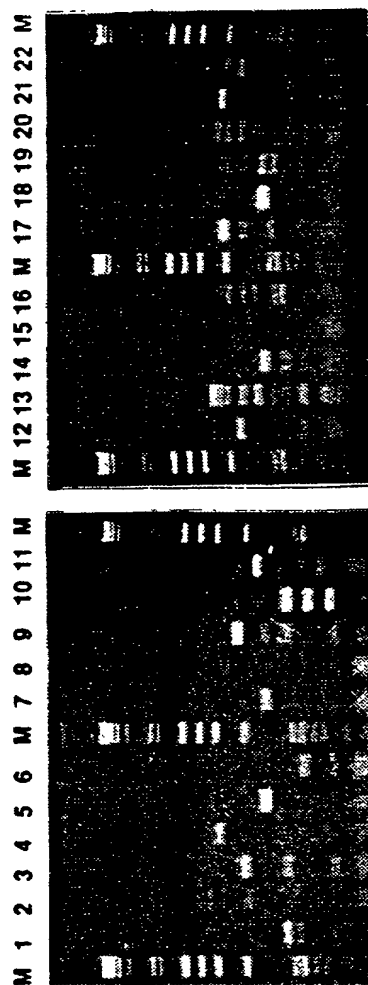


Figure 3

OLFACTORY

BRAIN

SPLEEN

5.0 -

2.0 -



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Figure 4A

F3			N	D	S	S	N	R	T	R	V	S	E	11
F5			N	S	S	T	N	Q	S	S	V	T	E	11
F6	N	A	W	S	T	G	Q	N	L	S	T	P	G	P
F12			N	E	S	G	N	S	T	R	R	F	S	S
I3			N	N	-	-	N	Q	T	F	I	T	Q	9
I7			N	E	R	R	N	H	S	G	R	V	S	E
I8			N	N	-	-	N	K	T	V	I	T	H	9
I9			N	T	R	R	N	Q	T	A	I	S	Q	11
I14			N	T	G	N	N	Q	T	L	I	L	E	11
I15			N	T	E	E	N	Q	T	V	I	S	Q	11

F3	F	L	L	L	G	F	V	E	N	K	D	L	Q	P	25
F5	F	L	L	L	G	L	S	R	Q	P	Q	Q	Q	Q	25
F6	F	I	L	L	G	F	P	G	P	R	S	M	R	I	28
F12	F	F	L	L	G	F	T	E	N	P	Q	L	H	F	26
I3	F	L	L	L	G	L	P	I	P	E	E	H	Q	H	23
I7	F	V	L	L	G	F	P	A	P	A	P	L	R	V	26
I8	F	L	L	L	G	L	P	I	P	P	E	H	Q	Q	23
I9	F	F	L	L	G	L	P	F	P	P	E	Y	Q	H	25
I14	F	L	L	L	G	L	P	I	P	S	E	Y	H	L	25
I15	F	L	L	L	F	L	P	I	P	S	E	H	Q	H	25

	I														
F3	L	I	Y	G	L	F	L	S	N	Y	L	V	T	V	39
F5	L	L	F	L	L	F	L	I	N	Y	L	A	T	V	39
F6	G	L	F	L	L	F	L	V	N	Y	L	L	T	V	42
F12	L	I	F	A	L	F	L	S	N	Y	L	V	T	V	40
I3	L	F	Y	A	L	F	L	V	N	Y	L	T	T	I	37
I7	L	L	F	F	L	S	L	L	X	Y	V	L	V	L	40
I8	L	F	F	A	L	F	L	I	N	Y	L	T	T	F	37
I9	L	F	Y	A	L	F	L	A	N	Y	L	T	T	L	39
I14	L	F	Y	A	L	F	L	A	N	Y	L	T	T	I	29
I15	V	F	Y	A	L	F	L	S	N	Y	L	T	T	V	39

	I	G	N	I	S	I	I	V	A	I	I	S	D	P	
F3	I	G	N	I	S	I	I	V	A	I	I	S	D	P	53
F5	L	G	N	L	L	I	I	L	A	I	G	T	D	S	53
F6	V	G	N	L	A	I	I	S	L	V	G	A	H	R	56
F12	L	G	N	L	L	I	I	M	A	I	I	T	Q	S	54
I3	L	G	N	L	L	I	I	V	L	V	Q	L	D	S	51
I7	T	E	N	M	L	I	I	I	A	I	R	N	H	P	54
I8	L	G	N	L	L	I	V	V	L	V	Q	L	D	S	51
I9	L	G	N	L	I	I	I	I	L	I	L	L	D	S	53
I14	L	G	N	L	L	I	I	V	L	V	R	L	D	S	53
I15	L	G	N	L	I	I	I	I	L	I	H	L	D	S	53

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Figure 4C

	<u>II</u>														
F3	C	L	H	T	P	N	Y	F	F	L	S	N	L	S	67
F5	R	L	H	T	P	N	Y	F	F	L	S	N	L	S	67
F6	C	L	Q	T	P	N	Y	F	F	L	C	N	L	S	70
F12	H	L	H	T	P	N	Y	F	F	L	A	N	L	S	68
I3	Q	L	H	T	P	N	Y	L	F	L	S	N	L	S	65
I7	T	L	H	K	P	N	Y	F	F	L	A	N	M	S	68
I8	H	L	H	T	P	N	Y	L	F	L	S	N	L	S	65
I9	H	L	H	T	P	N	Y	L	F	L	S	N	L	S	67
I14	H	L	H	M	P	N	Y	L	F	L	S	N	L	S	67
I15	H	L	H	T	P	N	Y	L	F	L	S	N	L	S	67

	<u>II</u>														
F3	F	V	D	I	C	F	I	S	T	T	V	P	K	M	81
F5	F	V	D	V	C	F	S	S	T	T	V	P	K	V	81
F6	F	L	E	I	W	F	T	T	A	C	V	P	K	T	84
F12	F	V	D	I	C	F	T	S	T	T	I	P	K	M	82
I3	F	S	D	L	C	F	S	S	V	T	M	P	K	L	79
I7	F	L	E	I	W	Y	V	T	V	T	I	P	K	M	82
I8	F	S	D	L	C	F	S	S	V	T	M	L	K	L	79
I9	F	A	D	L	C	F	S	S	V	T	M	P	K	L	67
I14	F	S	D	L	C	F	S	S	V	T	M	P	K	L	67
I15	F	S	D	L	C	F	S	S	V	T	M	P	K	L	67

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Figure 4D

F3	L	-	-	-	-	V	N	I	Q	T	Q	N	N	V	91
F5	L	-	-	-	-	A	N	H	I	L	G	S	Q	A	91
F6	L	-	-	-	-	A	T	F	A	P	R	G	G	V	94
F12	L	-	-	-	-	V	N	I	Y	T	Q	S	K	S	92
I3	L	-	-	-	-	Q	N	M	R	S	Q	K	T	S	89
I7	L	A	G	F	I	G	S	K	E	N	H	G	Q	L	96
I8	L	-	-	-	-	Q	N	I	Q	S	Q	V	P	S	89
I9	L	-	-	-	-	Q	N	M	Q	S	Q	V	P	S	91
I14	L	-	-	-	-	Q	N	M	Q	S	Q	V	P	S	91
I15	L	-	-	-	-	Q	N	M	Q	S	Q	V	P	S	91

	I	T	Y	A	G	C	I	T	<u>III</u>						
F3	I	T	Y	A	G	C	I	T	Q	I	Y	F	F	L	105
F5	I	S	F	S	G	C	L	T	Q	L	Y	F	L	A	105
F6	I	S	L	A	G	C	A	T	Q	M	Y	F	V	F	108
F12	I	T	Y	E	D	C	I	S	Q	M	C	V	F	L	106
I3	I	P	Y	G	G	C	L	A	Q	T	Y	F	F	M	103
I7	I	S	F	E	A	C	M	T	Q	L	Y	F	F	L	110
I8	I	S	Y	A	G	C	L	T	Q	I	F	F	F	L	103
I9	I	P	Y	A	G	C	L	A	Q	I	Y	F	F	L	105
I14	I	S	Y	T	G	C	L	T	Q	L	Y	F	F	M	105
I15	I	P	F	A	G	C	L	T	Q	L	Y	F	Y	L	105

Figure 4E

	<u>III</u>	
F3	L F V E L D N F L L T I N A	119
F5	V F G N M D N F L L A V N S	119
F6	S L G C T E Y F L L A V N A	122
F12	V F A I L G N F L L A V N A	120
I3	V F G D M E S F L L V A N A	117
I7	G L G C T E C V L L A V N A	124
I8	L F G Y L G N F L L V A N A	117
I9	F F G D L G N F L L V A N A	119
I14	V F G D M E S F L L V V N A	119
I15	Y F A D L E S F L L V A <u>N A</u>	119

	<u>III</u>	
F3	Y D R Y V A I C H P M H Y T	133
F5	Y D R F V A I C H P L H Y T	133
F6	Y D R Y L A I C L P L R Y G	136
F12	Y D R Y V A X C H P L C Y T	134
I3	Y D R Y V A I C F P L H Y T	131
I7	Y D R Y V A I C H P L H Y P	138
I8	Y D R Y V A I C F P L H Y T	131
I9	Y D R Y V A I C F P L H Y M	133
I14	Y D R Y V A I C F P L R Y T	133
I15	<u>Y D R Y V A I C</u> F P L H Y M	133

	IV														
F3	V	I	N	N	Y	K	L	C	G	F	L	V	L	V	147
F5	T	K	N	T	R	Q	L	C	V	L	L	V	V	G	147
F6	G	I	N	T	P	G	L	A	M	R	L	A	L	G	150
F12	V	I	V	N	H	R	L	C	I	L	L	L	L	L	148
I3	S	I	N	S	P	K	L	C	T	C	L	V	L	L	145
I7	V	I	V	S	S	R	L	C	V	Q	M	A	A	G	152
I8	N	I	N	S	H	K	L	C	T	C	L	L	L	V	145
I9	S	I	N	S	P	K	L	C	V	S	L	V	V	L	147
I14	T	I	N	S	T	K	F	C	A	S	L	V	L	L	147
I15	S	I	N	S	P	K	L	C	V	S	L	V	V	L	147

	<u>IV</u>														
F3	S	W	I	V	S	V	L	H	A	L	F	Q	S	L	161
F5	S	W	V	V	A	N	M	N	C	L	L	H	I	L	161
F6	S	W	L	C	G	F	S	A	I	T	V	P	A	T	164
F12	S	W	V	I	S	I	F	H	A	F	I	Q	S	L	162
I3	L	W	M	L	T	T	S	H	A	M	M	H	T	L	159
I7	S	W	A	G	G	F	G	I	S	M	V	K	V	F	166
I8	F	W	I	M	T	S	S	H	A	M	M	H	T	L	159
I9	S	W	V	L	T	T	F	H	A	M	L	H	T	L	161
I14	L	W	M	L	T	M	T	H	A	L	L	H	T	L	161
I15	S	W	V	L	T	T	F	H	A	M	L	H	T	L	161

Figure 4G

F3	M	M	L	A	L	P	F	C	T	H	L	E	I	P	175
F5	L	M	A	R	K	S	F	C	A	D	N	M	I	P	175
F6	L	I	A	R	L	S	F	C	G	S	R	V	I	N	178
F12	I	V	L	Q	L	T	F	C	G	D	V	K	I	P	176
I3	L	A	A	R	L	S	F	C	E	N	N	V	V	L	173
I7	L	I	S	R	L	S	Y	C	G	P	N	T	I	N	180
I8	L	A	A	R	L	S	F	C	E	N	N	V	L	L	173
I9	L	M	A	R	L	S	F	C	E	D	S	V	I	P	175
I14	L	I	A	R	L	S	F	C	E	K	N	V	I	L	175
I15	L	M	A	R	L	S	F	C	A	D	N	M	I	P	175

F3	H	Y	F	C	E	P	N	Q	V	I	Q	L	T	C	189
F5	H	F	F	C	D	G	T	P	L	L	K	L	S	C	189
F6	H	F	F	C	D	I	S	P	W	I	V	L	S	C	192
F12	H	F	F	C	E	L	N	Q	L	S	Q	L	T	C	190
I3	N	F	F	C	D	L	F	V	L	L	K	L	A	C	187
I7	H	F	F	C	D	V	S	P	L	L	N	L	S	C	194
I8	N	F	F	C	D	L	F	V	L	L	K	L	A	C	187
I9	H	Y	F	C	D	M	S	T	L	L	K	V	A	C	189
I14	H	F	F	C	D	I	S	A	L	L	K	L	S	C	189
I15	H	F	F	C	D	I	S	P	L	L	K	L	S	C	189

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Figure 4H

		V	
F3	S D A F L N D	L V I Y F T L	203
F5	S D T H L N E L M I L T E G		203
F6	T D T Q V V E L V S F G I A		206
F12	S D N F P S H L I M N L V P		204
I3	S D T Y I N E L M I F I M S		201
I7	T D M S T A E L T D F V L A		208
I8	S D T Y V N E L M I H I M G		201
I9	S D T H D N E L A I F I L G		203
I14	S D I Y V N E L M I Y I L G		203
I15	S D T H V N E L V I F V M G		203

	V	
F3	V L L A T V P L A G I F Y S	217
F5	A V V M V T P F V C I L I S	217
F6	F C V I L G S C G I T L V S	220
F12	V M L A A I S F S G I L Y S	218
I3	T L L I I I P F F L I V M S	215
I7	I F I L L G P L S V T G A S	222
I8	V I I I V I P F V L I V I S	215
I9	G P I V V L P F L L I I V S	203
I14	G L I I I I P F L L I V M S	203
I15	G L V I V I P F V L I I V S	203

Figure 4I

	<u>V</u>														
F3	Y	F	K	I	V	S	S	I	C	A	I	S	S	V	231
F5	Y	I	H	I	T	C	A	V	L	R	V	S	S	P	231
F6	Y	A	Y	I	I	T	T	I	I	K	I	P	S	A	234
F12	Y	F	K	I	V	S	S	I	H	S	I	S	T	V	232
I3	Y	A	R	I	I	S	S	I	L	K	V	P	S	T	229
I7	Y	M	A	I	T	G	A	V	M	R	I	P	S	A	236
I8	Y	A	K	I	I	S	S	I	L	K	V	P	S	T	229
I9	Y	A	R	I	V	S	S	I	F	K	V	P	S	S	231
I14	Y	V	R	I	F	F	S	I	L	K	F	P	S	I	231
I15	Y	A	R	V	V	A	S	I	L	K	V	P	S	V	231

	<u>VI</u>														
F3	H	G	K	Y	K	A	F	S	T	C	A	S	H	L	245
F5	R	G	G	W	K	S	F	S	T	C	G	S	H	L	245
F6	R	G	R	H	R	A	F	S	T	C	S	S	H	L	248
F12	Q	G	K	Y	K	A	F	S	T	C	A	S	H	L	246
I3	Q	G	I	C	K	V	F	S	T	C	G	S	H	L	243
I7	A	G	R	H	K	A	F	S	T	C	A	S	H	L	250
I8	Q	S	I	H	K	V	F	S	T	C	G	S	H	L	243
I9	Q	S	I	H	K	A	F	S	T	C	G	S	H	L	245
I14	Q	D	I	Y	K	V	F	S	T	C	G	S	H	L	245
I15	R	G	I	H	K	I	F	S	T	C	G	S	H	L	245

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Figure 4J

	<u>VI</u>	
F3	S V V S L F Y C T G L G V Y	259
F5	A V V C L F Y G T V I A V Y	259
F6	T V V L I W Y G S T I F L H	262
F12	S I V S L F Y S T G L G V Y	260
I3	S V V S L F Y G T I I G L Y	257
I7	T V V I I F Y A A S I F I Y	264
I8	S V V S L F Y G T I I G L Y	257
I9	S V V S L F Y G T V I G L Y	259
I14	S V V T L F Y G T I F G I Y	259
I15	S V V S L F Y G T I I G L Y	259

	<u>VI</u>	<u>VII</u>	
F3	L S S A A N N S S Q A S A T		273
F5	F N P S S S H L A G R D M A		273
F6	V R T S V E S S L D L T K A		276
F12	V S S A V V Q S S H S A A S		274
I3	L C P A G N N S T V K E M V		271
I7	A R P K A L S A F D T N K L		278
I8	L C P S G D N F S L K G S A		271
I9	L C P S A N N S T V K E T V		273
I14	L C P S G N N S T V K E I A		273
I15	L C P S A N N S T V K E T V		273

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Figure 4K

	VII														
F3	A	S	V	M	Y	T	V	V	T	P	M	V	N	P	287
F5	A	A	V	M	Y	A	V	V	T	P	M	L	N	P	287
F6	I	T	V	L	N	T	I	V	T	P	V	L	N	P	290
F12	A	S	V	M	Y	T	V	V	T	P	M	L	N	P	288
I3	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	285
I7	V	S	V	L	Y	A	V	I	V	P	L	F	N	P	292
I8	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	285
I9	M	S	L	M	Y	T	M	V	T	P	M	L	N	P	287
I14	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	287
I15	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	287

	VII														
F3	F	I	Y	S	L	R	N	K	D	V	K	S	V	L	301
F5	F	I	Y	S	L	R	N	S	D	M	K	A	A	L	301
F6	F	I	Y	T	L	R	N	K	D	V	K	E	A	L	304
F12	F	I	Y	S	L	R	N	K	D	V	K	R	A	L	302
I3	F	I	Y	S	L	R	N	R	D	M	K	R	A	L	299
I7	I	I	Y	C	L	R	N	Q	D	V	K	R	A	L	306
I8	F	I	Y	S	L	R	N	R	D	M	K	Q	A	L	299
I9	F	I	Y	S	L	R	N	R	D	I	K	D	A	L	301
I14	F	I	Y	S	L	R	N	R	D	M	K	R	A	L	301
I15	F	I	Y	S	L	R	N	R	D	M	K	E	A	L	301

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Figure 4L

F3	K K T L C E E V I R S P P S	315
F5	R K V L A M R F P S K Q -	313
F6	R R T V K G K -	311
F12	E R L L E G N C K V H H W T	316
I3	I R V I C S M K I T L -	310
I7	R R T L H L A Q D Q E A N T	320
I8	I R V T C S K K I S L P W -	312
I9	E K I M C K K Q I P S F L -	314
I14	I R V I C T K K I S L -	312
I15	I R V L C K K K I T F C L -	314
F3	L L H F F L V L C H L P C F	329
F5		
F6		
F12	G -	317
I3		
I7	N K G S K I G -	327
I8		
I9		
I14		
I15		

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Figure 6A(1)

				V										
F2	R	V	N	E	V	V	I	F	I	V	V	S	L	F
F3	F	L	N	D	L	V	I	Y	F	T	L	V	L	L
F5	H	L	N	E	L	M	I	L	T	E	G	A	V	V
F6	Q	V	V	E	L	V	S	F	G	I	A	F	C	V
F7	H	V	N	E	L	V	I	F	V	M	G	G	I	I
F8	F	P	S	H	L	T	M	H	L	V	P	V	I	L
F12	F	P	S	H	L	I	M	N	L	V	P	V	M	L
F13	F	P	S	H	L	I	M	N	L	V	P	V	M	L
F23	F	L	N	D	V	I	M	Y	F	A	L	V	L	L
F24	H	E	I	E	M	I	I	L	V	L	A	A	F	N
I3	Y	I	N	E	L	M	I	F	I	M	S	T	L	L
I7	S	T	A	E	L	T	D	F	V	L	A	I	F	I
I8	Y	V	N	E	L	M	I	H	I	M	G	V	I	I
I9	H	D	N	E	L	A	I	F	I	L	G	G	P	I
I11	H	L	N	E	L	M	I	L	T	E	G	A	V	V
I12	F	P	S	H	L	I	M	N	L	V	P	V	M	L
I14	Y	V	N	E	L	M	I	Y	I	L	G	G	L	I
I15	H	V	N	E	L	V	I	F	V	M	G	G	L	V

Figure 6A(2)

	V													
F2	L	V	L	P	F	A	L	I	I	M	S	Y	V	R
F3	A	T	V	P	L	A	G	I	F	Y	S	Y	F	K
F5	M	V	T	P	F	V	C	I	L	I	S	Y	I	H
F6	I	H	G	S	C	G	I	T	L	V	S	Y	A	Y
F7	L	V	I	P	F	V	L	I	I	V	S	Y	V	R
F8	A	A	I	S	L	S	G	I	L	Y	S	Y	F	K
F12	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K
F13	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K
F23	A	V	V	P	L	L	G	I	L	Y	S	Y	S	K
F24	L	I	S	S	L	L	V	V	L	V	S	Y	L	F
I3	I	I	I	P	F	F	L	I	V	M	S	Y	A	R
I7	L	L	G	P	L	S	V	T	G	A	S	Y	M	A
I8	I	V	I	P	F	V	L	I	V	I	S	Y	A	K
I9	V	V	L	P	F	L	L	I	I	V	S	Y	A	R
I11	M	V	T	P	F	V	C	I	L	I	S	Y	I	H
I12	G	A	I	S	L	S	G	I	L	Y	S	Y	F	K
I14	I	I	I	P	F	L	L	I	V	M	S	Y	V	R
I15	I	V	I	P	F	V	L	I	I	V	S	Y	A	R

F2	I	V	S	S	I	L	K	V	P	S	S	Q	G	I
F3	I	V	S	S	I	C	A	I	S	S	V	H	G	K
F5	I	T	C	A	V	L	R	V	S	S	P	R	G	G
F6	I	I	T	T	I	I	K	I	P	S	A	R	G	R
F7	I	V	S	S	I	L	K	V	P	S	A	R	G	I
F8	I	V	S	S	I	R	S	M	S	S	V	Q	G	K
F12	I	V	S	S	I	H	S	I	S	T	V	Q	G	K
F13	I	V	S	S	I	R	S	V	S	S	V	K	G	K
F23	I	V	S	S	I	R	A	I	S	T	V	Q	G	K
F24	I	L	I	A	I	L	R	M	N	S	A	E	G	R
I3	I	I	S	S	I	L	K	V	P	S	T	Q	G	I
I7	I	T	G	A	V	M	R	I	P	S	A	A	G	R
I8	I	I	S	S	I	L	K	V	P	S	T	Q	S	I
I9	I	V	S	S	I	F	K	V	P	S	S	Q	S	I
I11	I	T	W	A	V	L	R	V	S	S	P	R	G	G
I12	I	V	S	S	V	R	S	I	S	S	V	Q	G	K
I14	I	F	F	S	I	L	K	F	P	S	I	Z	D	I
I15	V	V	A	S	I	L	K	V	P	S	V	R	G	I

Figure 6A(4)

F2	Y	K
F3	Y	K
F5	W	K
F6	H	R
F7	R	K
F8	Y	K
F12	Y	K
F13	Y	K
F23	Y	K
F24	R	K
I3	C	K
I7	H	K
I8	H	K
I9	H	K
I11	W	K
I12	H	K
I14	Y	K
I15	H	K

Figure 6B

	<u>V</u>													
F12	F	P	S	H	L	I	N	N	L	V	P	V	M	L
F13	F	P	S	H	L	I	N	N	L	V	P	V	M	L
F8	F	P	S	H	L	T	N	H	L	V	P	V	I	L
I12	F	P	S	H	L	I	N	N	L	V	P	V	M	L
F23	F	L	N	D	V	I	N	Y	F	A	L	V	L	L
F3	F	L	N	D	L	V	I	Y	F	T	L	V	L	L

	V													
F12	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K
F13	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K
F8	A	A	I	S	L	S	G	I	L	Y	S	Y	F	K
I12	G	A	I	S	L	S	G	I	L	Y	S	Y	F	K
F23	A	V	V	P	L	L	G	I	L	Y	S	Y	S	K
F3	A	T	V	P	L	A	G	I	F	Y	S	Y	F	K

Figure 6B (Continued)

F12	I	V	S	S	I	H	S	I	S	T	V	Q	G	K
F13	I	V	S	S	I	R	S	V	S	S	V	K	G	K
F8	I	V	S	S	I	R	S	M	S	S	V	Q	G	K
I12	I	V	S	S	V	R	S	I	S	S	V	Q	G	K
F23	I	V	S	S	I	R	A	I	S	T	V	Q	G	K
F3	I	V	S	S	I	C	A	I	S	S	S	H	G	K

F12	Y	K
F13	Y	K
F8	Y	K
I12	H	K
F23	Y	K
F3	Y	K

Figure 6C

	V														
F7	H	V	N	E	L	V	I	F	V	M	G	G	I	I	
I15	H	V	N	E	L	V	I	F	V	M	G	G	L	V	
I3	Y	I	N	E	L	M	I	F	I	M	S	T	L	L	
I8	Y	V	N	E	L	M	I	H	I	M	G	V	I	I	
I9	H	D	N	E	L	A	I	F	I	L	G	G	P	I	
I14	Y	V	N	E	L	M	I	Y	I	L	G	G	L	I	

	V												
F7	L	V	I	P	F	V	L	I	I	V	S	Y	V R
I15	I	V	I	P	F	V	L	I	I	V	S	Y A	R
I3	I	I	I	P	F	F	L	I	V	M	S	Y A	R
I8	I	V	I	P	F	V	L	I	V	I	S	Y A	K
I9	V	V	L	P	F	L	L	I	I	V	S	Y A	R
I14	I	I	I	P	F	L	L	I	V	M	S	Y V	R

Figure 6C (Continued)

F7	I	V	S	S	I	L	K	V	P	S	A	R	G	I
I15	V	V	A	S	I	L	K	V	P	S	V	R	G	I
I3	I	I	S	S	I	L	K	V	P	S	T	Q	G	I
I8	I	I	S	S	I	L	K	V	P	S	T	Q	S	I
I9	I	V	S	S	I	F	K	V	P	S	S	Q	S	I
I14	I	F	F	S	I	L	K	F	P	S	I	Q	D	I

F7	R	K
I15	H	K
I3	C	K
I8	H	K
I9	H	K
I14	Y	K

Figure 6D

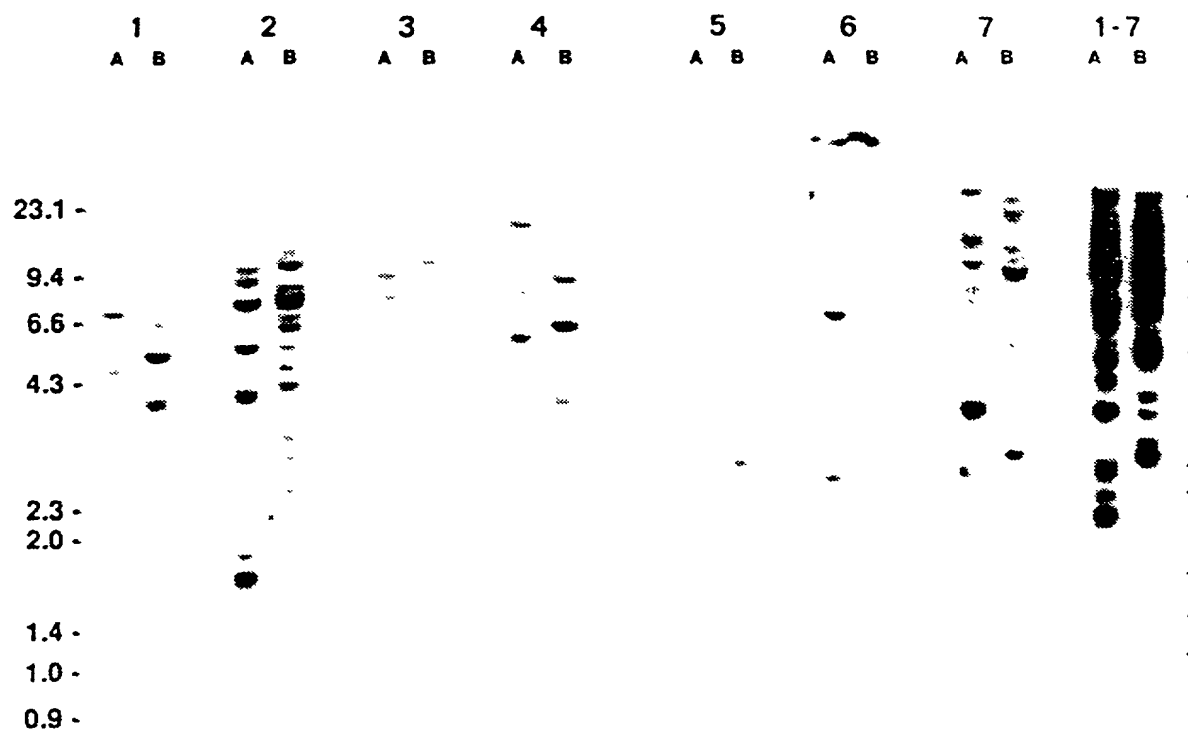
					<u>V</u>									
F5	H	L	N	E	L	M	I	L	T	E	G	A	V	V
I11	H	L	N	E	L	M	I	L	T	E	G	A	V	V

[illegible]

F5 I T C A V L R V S S P R G G
I11 I T W A V L R V S S P R G G

F5	W	K
I11	W	K

Figure 7



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Figure 8

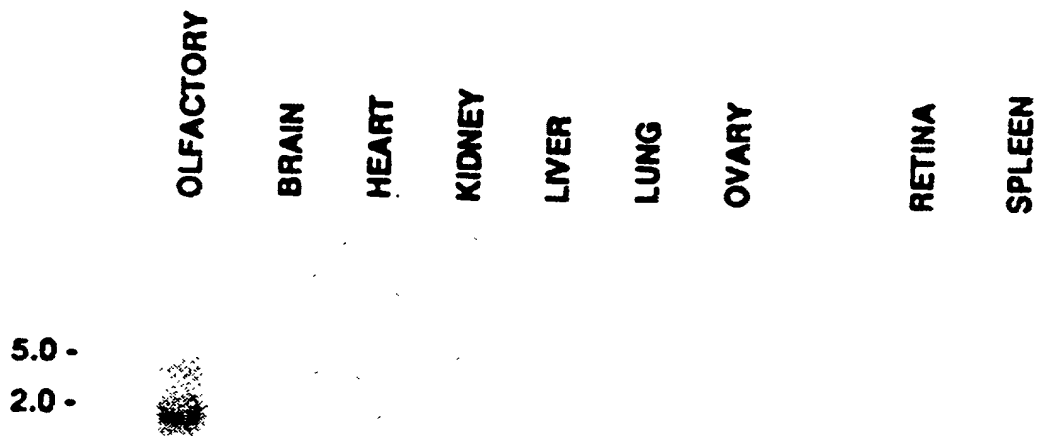


Figure 9B

310	*	320	*	330	*	340	*	350	*	360	*
ATA TAC TTT TTC TTG CTC TTT GTA GAA TTG GAC AAC TTC TTG CTG ACT ATC ATG GCC TAT											
I Y F F L L L F V E L D N F L L L T I M A Y											
370	*	380	*	390	*	400	*	410	*	420	*
GAC CGT TAC GTA GCC ATC TGT CAC CCC ATG CAC TAC ACA GTT ATC ATG AAC TAC AAG CTC											
D R Y V A I C H P M H Y T V I M N Y K L											
430	*	440	*	450	*	460	*	470	*	480	*
TGT GGA TTT CTG GTT CTG GTA TCT TGG ATT GTA AGT GTT CTG CAT GCC TTG TTT CAA ACC											
C G F L V L V S S W I V S V L L H A L F Q S											
490	*	500	*	510	*	520	*	530	*	540	*
TTG ATG ATG TTG GCG CTG CCC TTC TGC ACA CAT CTG GAA ATC CCA CAC TAC TTC TGT GAA											
L M M L A L L P F C T H L E I P H Y F C E											
550	*	560	*	570	*	580	*	590	*	600	*
CCT AAT CAG GTG ATT CAA CTC ACC TGT TCT GAT GCA TTT CTT AAT GAT CTT CTG ATA TAT											
P N Q V I Q L T C S D A F L N D L V I Y											
610		620		630		640		650		660	

Figure 9C

TTT	ACA	CTT	GTG	CTG	CTG	CTT	ACT	GTT	CCT	CCT	GCT	GGC	ATC	TTC	TAT	TCT	TAC	TTC	AAG	*
F	T	L	V	L	L	A	T	V	P	L	A	G	I	F	Y	S	Y	F	K	*
ATA	GTG	TCC	TCC	ATA	TGT	GCT	ATA	TCG	TCA	GTT	CAT	GGG	AAG	TAC	AAA	GCA	TTC	TCC	ACC	*
I	V	S	S	I	C	A	I	S	S	S	H	G	K	Y	K	A	F	S	T	*
730																				
TGT	GCA	TCT	CAC	CTT	TCA	GTC	GTG	TCT	TTA	TTT	TAC	TGC	ACA	GGA	CTA	GGA	GTG	TAC	CTC	*
C	A	S	H	L	S	V	V	S	L	F	Y	C	T	G	L	G	V	Y	L	*
790																				
AGT	TCT	GCT	GCA	AAC	AAC	AGC	TCA	CAG	GCA	AGT	GCC	ACA	GCC	TCA	GTC	ATG	TAC	ACT	GTA	*
S	A	A	N	N	S	S	S	Q	A	S	A	T	A	S	V	M	Y	T	V	*
850																				
GTT	ACC	CCT	ATG	GTG	AAC	CCT	TTT	ATC	TAT	AGT	CTT	AGG	AAT	AAA	GAT	GTT	AAG	AGT	GTT	*
V	T	P	M	V	N	P	F	I	Y	S	L	R	N	K	D	V	K	S	V	

Figure 10A Translated sequence of F5T.D1S

10 * 20 * 30 * 40 * 50 * 60 *
 ATG AGC AGC ACC AAC CAG TCC AGT GTC ACC GAG TTC CTC CTC CTG GGA CTC TCC AGG CAG
 M S S T N Q S S S V T E F L L L L G L S R Q

 70 * 80 * 90 * 100 * 110 * 120 *
 CCC CAG CAG CAG CTC CTC TTC CTC CTC TTC CTC ATC ATG TAC CTG GCC ACT CTC CTC
 P Q Q Q L L L F L L L F L I M Y L A T V L

 130 * 140 * 150 * 160 * 170 * 180 *
 GGA AAC CTG CTC ATC CTC GCT ATT GGC ACA GAC TCC CGC CTG CAC ACC CCC ATG TAC
 G N L L I I L L A I G T D S R L H T P M Y
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 190 * 200 * 210 * 220 * 230 * 240 *
 TTC TTC CTC AGT AAC CTG TCC TTT GTG GAT GTC TGC TTC TCC TCT ACC ACT CTC CCT AAA
 F F L S N L S F V D V C F S S S T T V P K

 250 * 260 * 270 * 280 * 290 * 300 *
 GTT CTG GCC AAC CAT ATA CTT GGG AGT CAG GCC ATT TCC TTC TCT GGG TGT CTC ACC CAG
 V L A N H I L L G S Q A I S F S G C L T Q

Figure 10B

CTG TAT TTT CTC GCT GTG TTT GGT AAC ATG GAC AAT TTC CTG GCT GCT ATG TCC TAT	310	320	330	340	350	360
L Y F L A V F G N M D N F L L A V M S Y	*	*	*	*	*	*
GAC CGA TTT GTG GCC ATA TGC CAC CCT TTA CAC TAC ACA ACA AAG ATG ACC CGT CAG CTC	370	380	390	400	410	420
D R F V A I C H P L H Y T T K M T R Q L	*	*	*	*	*	*
IGT GTC CTC CTT GTT GTG GGG TCA TCG GTT GTA GCC AAC ATG AAT TGT CTG TTG CAC ATA	430	440	450	460	470	480
C V L L V V G S S W V V A N M N C L L H I	*	*	*	*	*	*
CTG CTC ATG GCT CGA CTC TCC TCC TTC TGT GCA GAC AAC ATG ATC CCC CAC TTC TTC TGT GAT	490	500	510	520	530	540
L L M A R L S F C A D N M I P H F C D	*	*	*	*	*	*
GGA ACT CCC CTC CTG AAA CTC TCC TCC TCA GAC ACA CAT CTC AAT GAG CTG ATG ATT CTT	550	560	570	580	590	600
G T P L L K L S C S D T H L L N E L M I L	*	*	*	*	*	*
	610	620	630	640	650	660

Figure 10D

850	*	860	*	870	*	880	*	890	*	900	*
GTG ACC CCA ATG CTG AAC CCT TTC ATC TAT AGC CTG AGG AAC AGC GAC ATG AAA GCA CCT											
V T P M L N P F I Y S L R N S D M K A A											
910	*	920	*	930	*	940	*				
TTA AGG AAA GTG CTC GCC ATG AGA TTT CCA TCT AAG CAG TAA											
L R K V L A M R F P S K Q -											

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Translation begun with base no. 62
 Translated to base no.1003
 Sequence printed from base no. 62 to base no.1003
 Sequence numbered beginning with base no. 62

Figure 11A Translated sequence of F6T.D1S

10	20	30	40	50	60
* ATG GCT TGG AGT ACT GGC CAG AAC CTG TCC ACA CCA GGA CCA TTC ATC TTG CTG GGC TTC	* M A W S T G Q N L S T P G P F I L L G F	* 30	* 40	* 50	* 60
70	80	90	100	110	120
* CCA GGG CCA AGG AGC ATG CGC ATT GGG CTC TTC CTG CTT TTC CTG ATG TAT CTG CTT	* P G P R S M R I G L F L L F L V M Y L L	* 90	* 100	* 110	* 120
130	140	150	160	170	180
* ACG GTA GTT GGA AAC CTA GCC ATC ATC TCC CTG GTA GGT GCC CAC AGA TGC CTA CAG ACA	* T V V G G N L A I I S L V G A H R C L Q T	* 150	* 160	* 170	* 180
190	200	210	220	230	240
* CCC ATG TAC TTC TTC CTC TGC AAC CTC TCC TTC CTG GAG ATC TGG TTC ACC ACA GCC TGC	* P M Y F F L C N L S F L E I W F T A C	* 210	* 220	* 230	* 240
250	260	270	280	290	300
* GTA CCC AAG ACC CTG GCC ACA TTT GCG CCT CGG GGT GGA GTC ATT TCC TTG GCT GGC TGT	* V P K T L A T F A P R G G V I S L A G C	* 270	* 280	* 290	* 300

Figure 11B

310 * 320 * 330 * 340 * 350 * 360 *

GCC ACA CAG ATG TAC TTT GTC TTT TCT TTG GGC TGT ACC GAG TAC TTC CTG CTG GCT CTC

A T Q M Y F V F S L G C T E Y F L L A V

370 * 380 * 390 * 400 * 410 * 420 *

ATG GCT TAT GAC CGC TAC CTG GGC ATC TGC CTG CCA CTG CGC TAT GGT GGC ATC ATG ACT

M A Y D R Y L A I C L P L R Y G I M T

430 * 440 * 450 * 460 * 470 * 480 *

CCT GGG CTG GCG ATG CGG TTG GGC CTG GGA TCC TGG CTG TGT GCG TTT TCT GCA ATC ACA

P G L A M R L L A L G C S W L C G F S A I T

490 * 500 * 510 * 520 * 530 * 540 *

GTT CCT GCT ACC CTC ATT GCC CGC CTC TCT TTC TGT GGC TCA CGT CTC ATC AAC CAC TTC

V P A T L I A R L S F C C S R V I N H F

550 * 560 * 570 * 580 * 590 * 600 *

TTC TGT GAC ATT TCG CCC TCG ATA GTG CTT TCC TGC ACC GAC ACG CAG CTC GTG GAA CTC

F C D I S P W I V L S C T D T Q V V E L

610 620 630 640 650 660

Figure 12A Translated sequence of F12T.D1S

10	20	30	40	50	60
* ATG GAA TCA GGG AAC AGC ACA AGA AGA TTT TCA AGT TTT TTT CTT CTT GGA TTT ACA GAA	* M E S G N S T R R F S S F F L L G F T E	* 90	* 100	* 110	* 120
* AAC CCA CAA CTT CAC TTC CTC ATT TTT GCA CTA TTC CTG TCC ATG TAC CTG GTA ACA GTG	* N P Q L L H F L I F A L F L S M Y L V T V	* 130	* 140	* 150	* 160
* CTT GGG AAC CTG CTT ATC ATT ATG GCC ATC ATC ACA CAG TCT CAT TTG CAT ACA CCC ATG	* L G N L L I I M A I I T Q S H L H T P M	* 170	* 180	* 190	* 200
* TAC TTT TTC CTT GCT AAC CTA TCC TTT GTG GAC ATC TGT TTC ACC TCC ACC ACC ATC CCA	* Y F F L A N L S F V D I C F T S T T I P	* 210	* 220	* 230	* 240
* 250	* 260	* 270	* 280	* 290	* 300

Figure 12B

AAG	ATG	TTG	GTA	AAT	ATA	TAC	ACC	CAG	AGC	AAG	AGC	ATC	ACC	TAT	GAA	GAC	TGT	ATT	AGC
K	M	L	V	N	I	Y	T	Q	S	K	S	I	T	Y	E	D	C	I	S
310	*					320	*			330	*		340	*		350	*		360
CAG	ATG	TGT	GTC	TTC	TTG	GTT	TTT	GCA	GAA	TTG	GGC	AAC	TTT	CTC	CTG	GCT	GTG	ATG	GCC
Q	M	C	V	F	L	V	F	A	E	L	G	N	F	L	L	A	V	M	A
370	*					380	*			390	*		400	*		410	*		420
TAT	GAC	CGA	TAT	GTG	GCT	A-C	TGT	CAC	CCA	CTG	TGT	TAC	ACA	GTC	ATT	GTG	AAC	CAC	CCG
Y	D	R	Y	V	A	X	C	H	P	L	C	Y	T	V	I	V	N	H	R
430	*					440	*			450	*		460	*		470	*		480
CTC	TGT	ATC	CTG	CTG	CTT	CTG	CTG	TCC	TGG	GTT	ATC	AGC	ATT	TTC	CAT	GCC	TTC	ATA	CAG
L	C	I	L	L	L	L	L	S	W	V	I	S	I	F	H	A	F	I	Q
490	*					500	*			510	*		520	*		530	*		540
AGC	TTA	ATT	GTG	CTA	CAG	TTG	ACC	TTC	TGT	TGT	GGA	GAT	CTG	AAA	ATC	CCT	CAC	TTC	TTC
S	L	I	V	L	Q	L	L	T	F	C	C	D	V	K	I	P	H	F	C
550	*					560	*			570	*		580	*		590	*		600
GAA	CTT	AAT	CAG	CTG	TCC	CAA	CTC	ACC	TGT	TCA	GAC	AAC	TTT	CCA	AGT	CAC	CTC	ATA	ATG
E	L	N	Q	L	S	Q	L	T	C	S	D	N	F	P	S	H	L	I	M

Figure 12C

610	620	630	640	650	660													
* AAT CTT GTA CCT GTT ATG TTG GCA GCC ATT TCC TTC AGT GGC ATC CTT TAC TCT TAT TTC N L V P V M L A A I S F S G I L Y S Y F	* 620	* 630	* 640	* 650	* 660													
670	680	690	700	710	720													
* AAG ATA GTA TCC TCC ATA CAT TCT ATC TCC ACA GTT CAG GGG AAG TAC AAG GCA TTT TCT K I V S S I H S I S T V Q G K Y K A F S	* 680	* 690	* 700	* 710	* 720													
730	740	750	760	770	780													
* ACT TGT GCC TCT CAC CTT TCC ATT GTC TCC TTA TTT TAT AGT ACA GGC CTC GGA GTG TAC T C A S H L S I V S L F Y S T G L G V Y	* 740	* 750	* 760	* 770	* 780													
790	800	810	820	830	840													
* GTC AGT TCT GCT GTG GTC CAA AGC TCA CAT TCT GCT GCA AGT GCT TCG GTC ATG TAT ACT PRONUC/TRA OPTION	* 800	* 810	* 820	* 830	* 840													
V	S	A	V	V	Q	S	S	H	S	A	A	S	A	S	V	M	Y	T

Figure 12D

[illegible]

Translation begun with base no. 173

Translated to base no. 1126

Sequence printed from base no. 173 to base no. 1126

Sequence numbered beginning with base no. 173

Figure 13A Translated sequence of I3T.D1S

10	20	30	40	50	60
* ATG AAC AAT CAA ACT TTC ATC ACC CAA TTC CTT CTC CTG GGA CTG CCC ATC CCT GAA GAA	* M N Q T F I T Q F L L L G L P I P E E	* 70	* 80	* 90	* 100
* CAT CAG CAC CTG TTC TAT GCC TTG TTC CTG GTC ATG TAC CTC ACC ACC ATC TTG GGA AAC	* H Q H L F Y A L F L V M Y L T T I L G N	* 110	* 120	* 130	* 140
* TTG CTA ATC ATT GTA CTT GTT CAA CTG GAC TCC CAG CTC CAC ACA CCT ATG TAT TTG TTT	* L L I I V L V Q L D S Q L H T P M Y L F	* 150	* 160	* 170	* 180
* CTC AGC AAT TTG TCT TTC TCT GAT CTA TGT TTT TCC TCT GTC ACA ATG CCC AAG CTG CTG	* L S N L S F S D L C F S S V T M P K L L	* 190	* 200	* 210	* 220
* CAG AAC ATG AGG AGC CAG GAC ACA TCC ATT CCC TAT GGA GGC TGC CTG GCA CAA ACA TAC	* Q N M R S Q D T S I P Y G C L A Q T Y	* 230	* 240	* 250	* 260
* 270	* 280	* 290	* 300		

Figure 13C

AGT ACA CTC ATT ATT ATT CCA TTC TTC CTC ATT GTT ATG TCC TAT GCA AGG ATC ATA	*	*	*	*	*	*	*	*	*
S T L L I I I P F F L I V M S Y A R I I									
670	680	690	700	710	720				
TCC TCT ATT CTT AAG GTT CCA TCT ACC CAA GGC ATC TGC AAG GTC TTC TCT ACC TGT GGT	*	*	*	*	*				
S S I L K V P S T Q G I C K V F S T C G									
730	740	750	760	770	780				
TCC CAT CTG TCT GTA GTA TCA CTG TTC TAT GGG ACA ATT ATT GGT CTC TTA TGT CCA	*	*	*	*	*				
S H L S V V S S L F Y G T I I I G L Y L C P									

Figure 14A Translated sequence of I7T.D1S

10	20	30	40	50	60
* ATG GAG CGA AGG AAC CAC AGT GGG AGA GTG AGT GAA TTT GTG TTG CTG GGT TTC CCA CCT	* M E R R N H S G R V S E F V L L G F P A	* 70	* 80	* 90	* 100
* CCT GCC CCA CTG CGA GTA CTA TTT TTC CTT TCT TCT CTT CTG G-C TAT GTG TTG GTG TTC	* P A P L R V L L F F L S L L X Y V L V L	* 110	* 120	* 130	* 140
* ACT GAA AAC ATG CTC ATC ATT ATA GCA ATT AGG AAC CAC CCA ACC CTC CAC AAA CCC ATG	* T E N M L I I I A I R N H P T L L H K P M	* 150	* 160	* 170	* 180
* TAT TTT TTC TTG GCT AAT ATG TCA TTT CTG GAG ATT TCG TAT GTG ACT GTT ACG ATT CCT	* Y F F L A N M S F L E I W Y V T V T I P	* 190	* 200	* 210	* 220
* AAG ATG CTC GCT GGC TTC ATT GGT TCC AAG GAG AAC CAT GGA CAG CTG ATC TCC TTT GAC	* K M L A G F I G S K E N H G Q L I S F E	* 230	* 240	* 250	* 260
* 250	* 260	* 270	* 280	* 290	* 300

Figure 14B

310	*	320	*	330	*	340	*	350	*	360	*
GCA TGC ATG ACA CAA CTC TAC TTT TTC CTG GGC TTG GGT TGC ACA GAG TGT GTC CTT CTT	A C M T Q L Y F F L G L G C T E C V L L										
370	*	380	*	390	*	400	*	410	*	420	*
GCT GTG ATG GCC TAT GAC CGC TAT GTG GCT ATC TGT CAT CCA CTC CAC TAC CCC GTC ATT	A V M A Y D R Y V A I C H P L H Y P V I										
430	*	440	*	450	*	460	*	470	*	480	*
CTC AGT AGC CGG CTA TGT GTG CAG ATG GCA GCT GGA TCC TCG GCT GGA GGT TTT GGT ATC	V S S R L C V Q M A A A G S W A G G F G I										
490	*	500	*	510	*	520	*	530	*	540	*
TCC ATG GTT AAA GTT TTC CTT ATT TCT CGC CTG TCT TAC TGT TGT GGC CCC AAC ACC ATC AAC	S M V K V F L I S R L S Y C G G P N T I N										
550	*	560	*	570	*	580	*	590	*	600	*
CAC TTT TTC TGT GAT GTG TCT CCA TTG CTC AAC CTG TCA TGC TGC ACT GAC ATG TCC ACA GCA	H F F C D V S P L L N L S C C T T D M S T A										

Figure 14C

610	*	620	*	630	*	640	*	650	*	660	*
GAG CTT ACA GAC TTT GTC CTG GGC ATT TTT ATT CTG CTG GGA CCG CTC TCT GTC ACT GGC											
E L T D F V L A I F I L L G P L S V T G											
670	*	680	*	690	*	700	*	710	*	720	*
GCA TCC TAC ATG GCC ATC ACA GGT GCT GTG ATG CGC ATC CCC TCA GCT GGC CGC CAT											
A S Y M A I T G A V M R I P S A A G R H											
730	*	740	*	750	*	760	*	770	*	780	*
AAA GCC TTT TCA ACC TGT GCC TCC CAC CTC ACT GTT GTG ATC ATC TTC TAT GCA GCC ACT											
K A F S T C A S H L T V V I I F Y A A S											
790	*	800	*	810	*	820	*	830	*	840	*
ATT TTC ATC TAT GCC AGG CCT AAG GCA CTC TCA GCT TTT GAC ACC AAC AAG CTG CTC TCT											
I F I Y A R P K A L S A F D T N K L V S											
850	*	860	*	870	*	880	*	890	*	900	*
GTA CTC TAC GCT GTC ATT GTA CCG TTG TTC AAT CCC ATC ATC TAC TGC TTG CGC AAC CAA											
PRONUC/TRA											
OPTION											
V L Y A V I V P L F N P I I Y C L R N Q											

Figure 14D

910	920	930	940	950	960
*	*	*	*	*	*
GAT CTC AAA AGA GCG CTA CGT CGC ACG CTG CAC CTG GCC CAG GAC CAG GAG GCC AAT ACC					
D V K R A L R R T L H L A Q D Q E A N T					

970	980
*	*
AAC AAA GGC AGC AAA ATT GGT TAG	
N K G S K I G -	

Translation begun with base no. 119
 Translated to base no.1102
 Sequence printed from base no. 119 to base no.1102
 Sequence numbered beginning with base no. 119

Figure 15A Translated sequence of I8T.D1S

10 * 20 * 30 * 40 * 50 * 60 *
 ATG AAC AAC AAA ACT GTC ATC ACC CAT TTC CTC CTC CTG GGA TTG CCC ATC CCC CCA GAG
 M N N K T V I T H F L L L G L P I P P E

70 * 80 * 90 * 100 * 110 * 120 *
 CAC CAG CAA CTG TTC TTT GCC CTG TTC CTC ATC ATG TAC CTC ACC ACC TTT CTG GGA AAC
 H Q Q L L F F A L L F L I M Y L T T F L G N

130 * 140 * 150 * 160 * 170 * 180 *
 CTG CTA ATT GTT GTC CTT GTT CAA CTG GAC TCT CAT CTC CAC ACA CCC ATG TAC TTG TTT
 L L I V V L V Q L D S H L L H T P M Y L F

190 * 200 * 210 * 220 * 230 * 240 *
 CTC AGC AAC TTG TCC TTC TCT GAT CTC TCC TTT TCC TCT GTT ACA ATG CTG AAA TTG CTG
 L S N L S F S D L L C F S S S V T M L K L L

250 * 260 * 270 * 280 * 290 * 300 *
 CAA AAT ATA CAG AGC CAA GTA CCA TCT ATA TCC TAT GCA GGA TGC CTG ACA CAG ATA TTC
 Q N I Q S S Q V P S I S Y A G C L T Q I F

Figure 15B

TTC TTT TTG TTG TTT GGC TAC CTT GGC AAT TTC CTT CTT GTA GCC ATG GCC TAT GAC CGC	310	320	330	340	350	360
F L L L F G Y L L G N F L L V A M A Y D R	*	*	*	*	*	*
TAT GTG GCC ATC TGC TTC CCT CTG CAT TAT ACC AAC ATC ATG AGC CAT AAG CTC TGT ACT	370	380	390	400	410	420
Y V A I C F P L H Y T N I M S H K L C T	*	*	*	*	*	*
TGT CTC CTG CTG GTA TTT TGG ATA ATG ACA TCA TCT CAT GCC ATG ATG CAC ACC CTG CTT	430	440	450	460	470	480
C L L L V F W I M T S S S H A M M H T L L	*	*	*	*	*	*
GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTA CTC CTC AAC TTT TTC TGT GAC CTG TTT	490	500	510	520	530	540
A A R L S F C E N V L L L N F F C D L F	*	*	*	*	*	*
GTT CTC CTA AAG TTG GCC TGC TCA GAC ACT TAT CTT AAT GAG TTG ATG ATA CAT ATC ATG	550	560	570	580	590	600
V L L K L A C S D T Y V N E L M I H I M	*	*	*	*	*	*
	610	620	630	640	650	660

Figure 16A

Translated sequence of 19T.D1S

10 20 30 40 50 60
 * * * * *
 ATG ACT AGA AAC CAA ACT GGC ATC TCT CAG TTC TTC CTT CTG GGC CTG CCA TTC CCC
 M T R N Q T A I S Q F F L L G L P F P

70 80 90 100 110 120
 * * * * *
 GCA GAG TAC CAA CAC CTG TTC TAT GCC CTG TTC CTG GGC ATG TAC CTC ACC ACT CTC CTG
 P E Y Q H L F Y A L F L A M Y L T T L L

130 140 150 160 170 180
 * * * * *
 GGG AAC CTC ATC ATC ATC CTC ATT CTA CTG GAC TCC CAT CTC CAC ACA CCC ATG TAC
 G N L I I I L I L L D S H L H T P M Y

190 200 210 220 230 240
 * * * * *
 TTG TTT CTC AGC AAT TTA TCC TTT GCC GAC CTC TGT TTT TCC TCT GTC ACA ATG CCC AAG
 L F L S N L S F A D L C F S S V T M P K

250 260 270 280 290 300
 * * * * *
 * * * * *

Figure 16B

TTG TTG CAG AAC ATG CAG AGC CAA GTT CCA TCC ATC CCC TAT GCA GGG TGC CTG GCA CAG	*	*	*	*	*
L L Q N M Q S Q Q V P S I P Y A G C L A Q					
310	320	330	340	350	360
ATA TAC TTC TTT CTG TTT TTT GGA GAC CTT GGA AAC TTC CTG CTT GTG GCC ATG GCC TAT	*	*	*	*	*
I Y F F L F F G D L L G N F L L V A M A Y					
370	380	390	400	410	420
GAC CGC TAT GTG GCC ATG TGC TGC TTC CCC CTT CAT TAC ATG AGC ATC ATG AGC CCC AAG CTC	*	*	*	*	*
D R Y V A I C F F P L H Y M S I M S P K L					
430	440	450	460	470	480
TGT GTG AGT CTG GTG CTG TCC TGG GTG CTG ACT ACC TTC CAT GCC ATG CTG CAC ACC	*	*	*	*	*
C V S L V V' L S W V L T T F H A M L H T					
490	500	510	520	530	540
CTG CTC ATG GCC AGA TTG TCA TTC TGT GAG GAC AGT GTG ATC CCT CAC TAT TTC TGT GAT	*	*	*	*	*
L L M A R L S F C E D S V I P H Y F C D					
550	560	570	580	590	600
ATG TCT ACT CTG CTG AAA GTG GCT TGT TCT GAC ACC CAT GAT AAT GAA TTA GCA ATA TTT	*	*	*	*	*
M S T L L K V A C S D T H D N E L A I F					

Figure 16C

610	*	620	*	630	*	640	*	650	*	660	*								
ATC TTA GGC GGC CCT ATA GTT GTA CTA CCT TTC CTT CTC ATC ATT GTT TCT TAT GCA AGA	I L G G P I V V L V P F L L I I V S Y A R																		
670	*	680	*	690	*	700	*	710	*	720	*								
ATT GTT TCC TCC ATC TTC AAG GTC CCT TCT TCT CAA AGC ATC CAT AAA GCC TTC TCC ACC	I V S S I F K V P S S S Q S I H K A F S T																		
730	*	740	*	750	*	760	*	770	*	780	*								
TGT GGC TCC CAC CTG TCT GTG GTG TCA CTG TTC TAT GGG ACA CTC ATT GGT CTC TAC TTA	C G S H L S V V V S S L F Y G T V I G L Y L																		
790	*	800	*	810	*	820	*	830	*	840	*								
TGT CCT TCA GCT AAT AAC TCC ACT GTG AAG GAG ACT GTC ATG TCT TTG ATG TAC ACA ATG	PRONUC/TRA OPTION																		
C	P	S	A	N	N	S	T	V	K	E	T	V	M	S	L	M	Y	T	M

Figure 17A

Translated sequence of I14T.D1S

10	20	30	40	50	60
* ATG ACT GGA AAT AAC CAA ACT TTG ATC TTC GAG TTC CTC CTC GGT CTG CCC ATC CCA M T G N N Q T L I L E F L L L G L P I P	* 80	* 90	* 100	* 110	* 120
70 * TCA GAG TAT CAT CTC CTG TTC TAT GCC CTG TTC CTC GGC ATG TAC CTC ACC ATC ATC CTG S E Y H L L F Y A L F L A M Y L T I I L	* 140	* 150	* 160	* 170	* 180
130 * GGA AAC CTG CTA ATC ATT CTC CTT GTT CGA CTG GAC TCT CAT CTC CAC ATG CCC ATG TAC G N L L I I V L V R L D S H L H M P M Y	* 200	* 210	* 220	* 230	* 240
190 * TTG TTT CTC AGC AAC TTG TCC TTC TCT GAC CTC TGC TGC TTT TCC TCT GTC ACA ATG CCC AAA L F L S N L S S F S D L L C C F S S V T M P K	* 260	* 270	* 280	* 290	* 300
250 * TTG CTT CAG AAC ATG CAG AGC CAA GTA CCA TCT ATA TCC TAT ACA GGC TGC CTG ACA CAG L L Q N M Q S Q Q V P S I S Y T G C L T Q					

Figure 17B

CTG TAC TTC TTT ATG GTT TTT GGA GAT ATG GAG AGC TTC CTT CTT CTG CTC ATG GCC TAT	310	320	330	340	350	360
L Y F F M V F F G D M E S F L L V V M A Y	*	*	*	*	*	*
GAC CGC TAT GTG GCC ATT TGC TTT CCT TTG CGT TAC ACC ACC ATC ATG AGC ACC AAG TTC	370	380	390	400	410	420
D R Y V A I C F P L R Y T T I M S T K F	*	*	*	*	*	*
TGT GCT TCA CTA GTG CTA CTT CTG TGG ATG CTG ACG ATG ACC CAT GCC CTG CAT ACC	430	440	450	460	470	480
C A S L V L L L L W M L T M T H A L L H T	*	*	*	*	*	*
CTA CTC ATT GCT AGA TTG TCT TCT TTT TGT GAG AAG AAT GTG ATT CTT CAC TTT TTC TGT GAC	490	500	510	520	530	540
L L I A R L L S F C E K N V I L L H F C D	*	*	*	*	*	*
ATT TCT GCT CTT CTG AAG TTG TCC TCC TCA GAC ATT TAT GTT AAT GAG CTG ATG ATA TAT	550	560	570	580	590	600
I S A L L K L S C S D I Y V N E L M I Y	*	*	*	*	*	*
	610	620	630	640	650	660

Figure 17C

ATC	TTG	GGT	GGA	CTC	ATC	ATT	ATT	ATC	CCA	TTC	CTA	TTA	ATT	GTT	ATG	TCC	TAT	GTT	AGA	*
I	L	G	G	L	I	I	I	I	P	F	L	L	I	V	M	S	Y	V	R	*
670						680			690			700				710			720	
ATT	TTC	TTC	TCC	ATT	TTG	AAG	TTT	CCA	TCT	ATT	CAG	GAC	ATC	TAC	AAG	GTA	TTC	TCA	ACC	*
I	F	F	S	I	L	K	F	P	S	I	Q	D	I	Y	K	V	F	S	T	
730						740			750			760				770			780	
TGT	GGT	TCC	CAT	CTG	TCT	CTG	CTG	ACC	TTG	TTT	TAT	GGG	ACA	ATT	TTT	GGT	ATC	TAC	TTA	*
C	G	S	H	L	S	V	V	T	L	F	Y	G	T	I	F	G	I	Y	L	
790						800			810			820				830			840	
TGT	CCA	TCA	GGT	AAT	AAT	TCT	ACT	GTG	AAG	GAG	ATT	GCC	ATG	GCT	ATG	ATG	TAC	ACA	CTG	*
PRONUC/TRA								OPTION												
C	P	S	G	N	N	S	T	V	K	E	I	A	M	A	M	M	Y	T	V	
850						860			870			880				890			900	
GTG	ACT	CCC	ATG	CTG	AAT	CCC	TTC	ATC	TAC	AGC	CTG	AGG	AAC	AGA	GAC	ATG	AAA	AGG	GCC	*
V	T	P	M	L	N	P	F	I	Y	S	L	R	N	R	D	M	K	R	A	

Figure 18B

310	*	320	*	330	*	340	*	350	*	360	*
TTA TAC TTT TAC CTG TAT TTT GCA GAC CTT GAG AGC TTC CTG CTT CTG GCC ATG GCC TAT											
L Y F Y L Y F A D L E S F L L V A M A Y											
370	*	380	*	390	*	400	*	410	*	420	*
GAC CGC TAT GTG GCC ATC TGC TTC CCC CTT CAT TAC ATG AGC ATC ATG AGC CCC AAG CTC											
D R Y V A I C F P L H Y M S I M S P K L											
430	*	440	*	450	*	460	*	470	*	480	*
TGT GTG AGT CTG GTG CTG TCC TGG GTG CTG ACC ACC TTC CAT GCC ATG CTG CAC ACC											
C V S L V V L S W V L T T F H A M L H T											
490	*	500	*	510	*	520	*	530	*	540	*
CTG CTC ATG GCC AGA TTG TCA TTC TGT GCG GAC AAT ATG ATC CCC CAC TTT TTC TGT GAT											
L L M A R L S F C A D N M I P H F C D											
550	*	560	*	570	*	580	*	590	*	600	*
ATA TCT CCT TTA TTG AAA CTG TCC TGC TCT GAC ACC CAT GTT AAT GAG TTG GTG ATA TTT											
I S P L L K L S C S D T H V N E L V I F											
610		620		630		640		650		660	

[illegible]

	910		920		930		940
	*		*		*		*
CTG ATA AGA GTC CTT TGT AAA AAG AAA ATT ACC TTC TGT CTA TGA L I R V L C K K K I T F C L -							

Translation begun with base no.	8	
Translated to base no.	952	
Sequence printed from base no.	8 to base no.	952
Sequence numbered beginning with base no.	8	8

Translated Sequence of H5.D1S

10					20			
ATC	TGT	TTT	GTG	TCT	ACC	ACT	GTC	CCA
I	C	F	V	S	T	T	V	P
70					80			
*					*			
GTC	ATC	ACC	TAT	GCA	GAC	TGC	ATC	ACC
V	I	T	Y	A	D	C	I	T
*					*			
GAC	AGC	TTA	CTC	CTG	ACT	GTG	ATG	GCC
D	S	L	L	L	T	V	M	A
190					200			
*					*			
CAC	TAC	ACA	GTC	ATT	ATG	AGC	TCC	TGG
E	Y	T	V	I	M	S	S	W
250					260			
*					*			
GTG	AGC	ATC	CTA	TAT	TCT	CTG	TTA	CAA
V	S	I	L	Y	S	L	L	Q

70/99

Figure 19B

30			40				50			60
*			*				*			*
AAG	CAG	CTG	GTG	AAC	ATC	CAG	ACA	CAG	AGC	AGA
K	Q	L	V	N	I	Q	T	Q	S	R
90			100				110			120
*										
CAG	ATG	TGC	TTT	TTT	ATA	CTC	TTT	GTA	GTG	TTG
Q	M	C	F	F	I	L	F	V	V	L
			160				170			180
*			*				*			*
TAT	GAC	CGG	TTT	GTG	GCC	ATC	TGT	CAC	CCC	CTG
Y	D	R	F	V	A	I	C	H	P	L
210			220				230			240
*			*				*			*
CTC	TGT	GGA	CTG	CTG	GTT	CTG	GTG	TCC	TTG	ATC
L	C	G	L	L	V	L	V	S	N	I
270			280				290			300
*			*				*			*
AGC	ATA	ATG	GCA	TTG	CAG	CTG	TCC	TTC	TGT	ACA
S	I	M	A	L	Q	L	S	F	C	T

00774300 09307

Figure 19C

310	320	330
*	*	*
GAA CTG AAA ATC CCT CAA TTT TTC TGT GAA		
E L K I P Q F F C E		
370	380	390
*	*	*
GAC ACT TTT ATT AAT GAC ATG ATG ATG AAT		
D T F I N D M M M N		
430	440	450
*		*
CTC GCT GGA ATA TTT TAC TAC TTT AAG		
L A G I F Y X Y F K		
490	500	510
*	*	*
GCT CAG GGG ATG AAT AAA GCA CTT TCC ACC		
A Q G M N K A L S T		
550	560	570
	*	*
TTT TAT TGT ACA GGC GTA GGT GTG TAC CTT		
F Y C T G V G V Y L		
610	620	630
*	*	*
AAT GCT GCA GCC TCG GTG ATG TAC ACT GTG		
N A A A S V M Y T V		

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72/99
Figure 19D

340			350			360			
★			★			★			
CTT	AAT	CAG	GTC	ATC	CAC	CTT	GCC	TGT	TOC
L	N	Q	V	I	H	L	A	C	S
400			410			420			
★			★			★			
TTT	ACA	AGT	GTG	CTG	CTG	GGT	GGG	GGA	TGC
F	T	S	V	L	L	G	G	G	C
460			470			480			
★			★			★			
ATA	CTT	TGT	TGC	ATA	TGT	TCG	ATC	TCA	TCA
I	L	C	C	I	C	S	I	S	S
520			530			540			
★			★			★			
TGT	GCA	TCT	CAC	CTC	TCA	GTT	GTC	TCC	TTA
C	A	S	H	L	S	V	V	S	L
580			590			600			
★			★			★			
AGT	TCT	GCT	GCA	ACC	CAT	AAC	TCA	CTC	TCA
S	S	A	A	T	H	N	S	L	S
640									
★									
GTC	ACC	TCC	ATG	CTG					
V	T	S	M	L					

00774300 043074

Figure 20A

[illegible]

Figure 20B

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
-----+-----+-----+-----+-----+-----+-----+-----+
241  ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
-----+-----+-----+-----+-----+-----+-----+-----+
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
-----+-----+-----+-----+-----+-----+-----+-----+
301  ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
-----+-----+-----+-----+-----+-----+-----+-----+
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-----+-----+-----+-----+-----+-----+-----+-----+
361  ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
-----+-----+-----+-----+-----+-----+-----+-----+
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-----+-----+-----+-----+-----+-----+-----+-----+
421  ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
-----+-----+-----+-----+-----+-----+-----+-----+
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
-----+-----+-----+-----+-----+-----+-----+-----+
481  ? ? ? Y S Y S K I V S S I R E I S S S Q
-----+-----+-----+-----+-----+-----+-----+-----+
GGGAAAGTACAGXXATTCTCCACCCTGTGCATCCACCCTCTCAGTTGTTTCATTATCTA
-----+-----+-----+-----+-----+-----+-----+-----+
481  G K Y K ? P S T C A S H L S V V S L P Y
-----+-----+-----+-----+-----+-----+-----+-----+

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Figure 20C

541 TTCTACACTTTTGGTGCTACCTTAGTCTCTTTTACCCAAACTCACACTCAACTGC
S T L L G V Y L S S S F T Q N S H S T A - +600
601 ACGGCCCAICTGTTATGTACAGTGTGGTCACCCCCCATGTTG
R A S V M Y S V V T P M L - +640

Figure 21B

```

301 ATCCCTCACTTCTTCTGTGAGCTCAATCAGCTGTCCCACTCACATGTTTCAGACAACCTTT
    I P H F F C E L N Q L S Q L T C S D N F -
361 CCAAGTCACCTCACAAATGTCATCTTGTACCTGTATATTTGCAGCTATTTCCCTCAGTGGT
    P S H L T M H L V P V I F A A I S L S G -
421 ATCCTTTACTCTTATTCAAGATAGTGCTTCCTACGTTCCTATGTCTCCTCAGTTCAAGCG
    I L Y S Y F K I V S S I R S M S S V Q G -
481 AAGTACAAGGCATTTTCTACATGTGCCCTCTCACCTTTCCATTGCTCTCTTATTTATAGT
    K Y K A F S T C A S H L S I V S L F Y S -
541 ACAGGCCCTCGGGTGTACGTCAAGTTCTGTGTGATCCGAAGCTCACACTCTCTGCAAGT
    T G L G V Y V S S A V I R S S H S S A S -
601 GCTTCGGTCATGTACTGTGTACCCCATGTTG
    A S V M Y T V V T P M L -
636

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J4

Figure 22A

1 CATAGGCTATTCATCTTCTGTGCACACCCAAATATGCTTGTCAACTTCCTTATAAGCAAAA
 I G Y S S V T P N M L V N F L I K Q N - 60
 61 TACCATCTCATACCTTGGATGTTCTATACAGTTGGCTCAGCTGCTTGTTCACGCTCT
 T I S Y L G C S I Q P G S A A L F G G L - 120
 121 TGAATGCTTCTTCTGGCTGCCATGGCGTATGATCGTTTGTAGCAATCTGCAACCCACT
 E C F L L A A M A Y D R F V A I C N P L - 180
 181 GCTTTATTCAACGAAATGTCACACAGTCGTGTCAGTGTGGTGGGATCTTATAT
 L Y S T K M S T Q V C V Q L V V G S Y I - 240
 241 AGGGGATTTCCTTAATGCCCTCCCTTTTACCCCTTTCCTTTTTCCTTGTCTCTGCTGCG
 G G F L N A S S F T L S F F S L S P C G - 300

Figure 22B

```

301 ACCAATAGAAATCAACTTTTACTGTGATTTTGCTCGTGTAGTAACTTCTTGCTC
    P N R I N H F Y C D F A P L V E L S C S -
361 TGATGTCAGTCTTCCCTGATGCTGTACCCTCATTTTCTGCTGCCCTCAGTTACTATGCTCAC
    D V S V P D A V T S F S A A S V T M L T -
421 AGTGTATTATCATAGCCATCTCCTATACCTATATCCTCATCACCATCCTGAAGATGCGTTC
    V F I I A I S Y T Y I L I T I L K H R S -
481 CACTGAGGGTGGACAGAAAGCATTTCTACCTGCACCTTCCACCCTCACTGCAGTCACTCT
    T E G R Q K A F S T C T S H L T A V T L -
541 GTGCTATGGAACCATCACATTCATCTATGTGATGCCCAAGTCCAGCTACTCCACAGACCA
    C Y C T I T F I Y V M P K S S Y S T D Q -
601 GAACAAGGTGCTCTCTGTTTATATGCTGTGATCCCATGTTG
    N K V V S V F Y M V V I P M L -
    646

```

Figure 23A

[illegible]

Figure 23B

301 TTTAAAGTTTCCTTCGCTCAACAAGAAAAAGCCCTTTTCATGTTCTTCCACAT
L K F P S A Q Q Q R K K A F S T C S S H M -
360

361 GATGTGTTCCATCACCTATGGAGCTGTATTTCATCTACATCAAAACCTTCAGCGAA
I V V S I T Y G S C I P I Y I K P S A K - +20

[illegible]

C 481 - 481 G

Figure 24A

J8

```

1  CATCTGCCACCGCTCCACTACTCTCTTCTCATGAGTCCTGACAACTGCTGCTCTGGT
   -----+-----+-----+-----+-----+-----+-----+-----+
   I C H P L H Y S L L M S P D N C A A L V - 60
61  AACAGTCTCTGGGTGACAGCGGTGGGCACGGGCTTCCTGCTTCCCTCCTGATTCTAA
   -----+-----+-----+-----+-----+-----+-----+-----+
   T V S W V T G V G T G F L P S L L I S K - 120
121 GTTGGACTTCTGTGGGCCCAACCGCATCAACCATTTCTCTGTGACCTCCCTCCATTAAAT
   -----+-----+-----+-----+-----+-----+-----+-----+
   L D F C G P N R I N H F P C D L P P L I - 180
181 CCAGCTGTCCTGCTCCAGCGTCTTTGTGACAGAAATGGCCATCTTTGTCTCTGTCCTCCATCGC
   -----+-----+-----+-----+-----+-----+-----+-----+
   Q L S C S S V P V T E M A I F V L S I A - 240

```


511

GTCTGCTTCTCCTCCACCACACTGTCCCCAAGGTACTGGCTAACCACTACTCAGTAGTCA
-----+-----+-----+-----+-----+60

V C F S S T T V P K V L A N H I L E S Q -
GCCCATTTCTCTGGGTCTTAACCTCAGCTGTATTTTCTCTGTCTGTGAATAT
-----+-----+-----+-----+120

A I S F S G C L T Q L Y F L C V S V N M -
GGACAATTCTGCTGGCTGTGATGGCCCTATGCACAGATTGTGGCCATATGCCACCCTTT
-----+-----+-----+-----+180

D N F L L A V M A Y D R P V A I C H P L -
GTACTACACAAGAATGACCCACCAGCTCTGTCTGTCTGGTGTCGATCAXXXX
-----+-----+-----+-----+240

Y Y T T K M T H Q L C V L L V S G S ? ? -
XXX
-----+-----+-----+-----+300

? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? -

XXXXXX
-----+-----+-----+-----+-----+-----+
301 ? -
XXX
-----+-----+-----+-----+-----+-----+
361 ? -
XXX
-----+-----+-----+-----+-----+-----+
421 ? -
ATTGTCGCATCCTCATCTTACATCTACATCACCAATGCAGTCTCAGAGTCTCATC
-----+-----+-----+-----+-----+-----+
481 P V C I L I S Y I Y I T N A V L R V S S -
CTTAGGGAGGATGGAAGCCCTTCTCCACCCTGTGGCTCACACCTGGCTGTGGTCTGCCT
-----+-----+-----+-----+-----+-----+
540 F R G G W K A F S T C G S H I A V V C L

Figure 25C

541 CTTCTATGGCACCATCATGCTGTGTATTTCATCCTGTATCTTCCCATTCATCTGAGAA
 -----+-----+-----+-----+-----+-----+-----+600
 F Y G T I I A V Y F N P V S S H S S E K -
 601 GGACACTGCAGCAACTGTGCTATACACAGTGGTGACTCCCATGTG
 -----+-----+-----+-----+-----+-----+646
 D T A A T V L Y T V V T P M L -

301
XXX
-----+-----+-----+-----+-----+
? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? - +360

361
XXX
-----+-----+-----+-----+-----+TGATCATGGTCAACCC
? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? V I M V T P - +420

421
ATTGTCTGCATCCTCATCTCTTACATCTACATCACCAATGCAGTCCTCAGAGTCTCATC
-----+-----+-----+-----+-----+
P V C I L I S Y I Y I T N A V L R V S S - +480

481
CTTTAGGGAGGATGGAAAGCCTTCTCCACCTGTGGCTACACCTGGCTGTGGTCTGCCCT
-----+-----+-----+-----+-----+
F R G O W K A F S T C G S H L A V V C L - +540

541
CTTCTATGGCACCATCATTCCTGTGTATTTCAATCCTGTATCTTCCCATTCTCATCTGAGAA
-----+-----+-----+-----+-----+
F Y C T I I A V Y P N P V S S H S S E K - +600

601
GGACACTGCAGCACTGTGCTATACACAGTGGTGACTCCCATGTTG
-----+-----+-----+-----+-----+
D T A A T V L Y T V V T P M L - 646

J15

Figure 27A

```

1  TATCTCAACCTCTGCGTACCCAGTCTCTATGACGGCCGGGTGCTGCTGCTATGCT
   - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +
   I C N P L R Y P V L M S Q R V C L L M V 60

61  CGTGGCTCCTGGTTGGAGGATCCCTCAACGCCCTCCATTCAGACTTCTTGACCTTCA
   - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +
   V A S W L G Q S L N A S I Q T S L T L Q - 120

121 GTTCCCCTACTGTGGATCAGGAAGATCTCCCACCTTCTTCTGTGAGGTGCCCTGCTGCT
   - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +
   F P Y C G S R R I S H F P C E V P S L L - 180

181 GAXXXTGGCCTGTGCAGACACTGAAGCCTATGAGCAGGTACTATTGTGACAGCGTGGT
   - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +
   ? ? A C A D T E A Y E Q V L F V T G V V - 240

```

Figure 27B

241 GGTCTCTCTGGTCCCATTCATTACTGCTCTTATGCCCTCATCTGGCTGCTGT
 -----+-----+-----+-----+-----+-----+-----+
 V L L V P I T P I T A S Y A L I L A A V

 301 GCTCCGAATGCACTCTCGGAGGGAGTCAGAGGCCCTAGCCACATGCTCCTCCTCACCT
 -----+-----+-----+-----+-----+-----+-----+
 L R M H S A E G S Q K A L A T C S S H L -

 361 GACAGTCGTCAATCTTCTATGGGCCCCCTGTCTACACCTACATGTTACCTGCTTCCTA
 -----+-----+-----+-----+-----+-----+-----+
 T V V N L F Y G P L V Y T Y M L P A S Y -

 421 TCACTCACCAGGCCAAGACGACATAGTATCCGTCCTTTTACACCGTCTCACACCCATGCT
 -----+-----+-----+-----+-----+-----+-----+
 H S P C Q D D I V S V F Y T V L T P M L -

 T
 481 - 481
 A

J16

Figure 28A

1 CATCTAGGCCCTTCACTATCCTACCTCATGCCAGACACTGTGTCAGATTCG
 I C R P L H Y P T L M T Q T L C A K I A - +60
 61 CACTGGTTCCTGGTGGAGCCTTCGCTGGCCAGTGGTAGAAATTCCTTGGTCTCG
 T G C N L G G L A G P V V E I S L V S R - +120
 121 TCCTCTTTTGTGGCCCAATCACAATCAACACATCTTTGTGATTTCACCTGTCT
 L L F C G F N H I Q H I F C D F P P V L - +180
 181 GAGCTTGGCTGTACTGATACATCAGTGAATGCTCTGGTAGATTTTATTATAACCTCTG
 S L A C T D T S V N V L V D P I I N L C - +240
 241 CAAGATCTGGCCACCTTCCTGCTGATCCTGAGCTCCTACTGTCAGATAATCCGCACAGT
 K I L A T F L L I L S S Y L Q I I R T V - +300

GAGCTGGCTGTACTGATACATCACTAGTGAATGCTCTGGTAGATTTTATTATAAACCTCTG
 S L A C T D T S V N V L V D F I I N L C - +240
 CAAGATCCGGCCACCTTCCTGCTGATCCTGAGCTCCTACTTCAGATAATCCGCACAGT
 K I L A T F L L I L S S Y L Q I I R T V - +300
 GCTCAAGATTCTTCAGCTGCAGGCAGAGAAGCATTCCTCGACTTGTCGCTCCCATCT
 L K I P S A A G K K A P S T C A S H L - +360
 CACTGGTCTCATCTTCTATGGAGCATCCTTTTCATGTATGTGCGGCTGAAGAAGAC
 T V V L I F Y G S I L F M Y V R L K K S - +420
 TTACTCCCTTGACTACGACAGAGCCCTTGGCAGTAGTCTACTCCGTGGTACCCCTTTCCT
 Y S L D Y D R A L A V V Y S V V T P F L - +480

**G
481 - 481**

J17

Figure 29A

1 AATCTCAACCCACTGCTTTATTCCACCMAATGTCACACAAGTCTGTATCCAGTGGT
 I C N P L L Y S T K M S T Q V C I Q L V - 60
 61 TGCAGGATCTTATAGGGGTTTCTTAATACTTCCTCATCATGTTTACTTTTCCTC
 A G S Y I G C P L N T C L I M F Y F F S - 120
 121 TTTTCTTCTGTCGGCCAAATATAGTTCATGATTTTCTGTGATTTTGCCTCCTTTXXT
 F L P C G P N I V D H F F C D F A P ? - 180
 181 GGAACTTTCGCTCTGATGTGAGTGCTCTGTAGTGTATGTCATTTCTGCTGGCTC
 E L S C S D V S V S V V V M S F S A G S - 240
 241 AGTTACTATGATCACAGTGTATTATCATAGCCATCTCCTATTCTTACATCCTCATCACCAT
 V T M I T V F I I A I S Y S Y I L I T I - 300

Figure 29B

301 CCTGAAGATGTCCTCAACTGAGGCCCGTCACAAGGCTTCTCCACATGTACCTCCACCT
 -----+-----+-----+-----+-----+-----+-----+360
 L K M S S T E G R H K A F S T C T S H L -

 361 CACTGCAGTCACTCTCTACTATGGCACCATTACCTTTCATTTATGTGATGCCCAAGTCCAC
 -----+-----+-----+-----+-----+-----+-----+420
 T A V T L Y Y G T I T F I Y V M P K S T -

 421 ATACTCTACAGACCAGAACAAGGTGGTGTCTGTCTTTTACATGGTGGTGATCCCAATGTT
 -----+-----+-----+-----+-----+-----+-----+480
 Y S T D Q N R V V S V F Y M V V I P M L -

G

481 - 481

Figure 30A

J19

1 TATCTGCCACCCTCTGAAGTACACAGTTATCATGAATCACTATTTTGCTGATGCTGCT
 I C H P L K Y T V I M N H Y P C V M L L - +60
 61 GCTCTTCTCTCTCTGTTAGCACTTCCACATTTTAAATGGTGTGAT
 L F S V F V S I A H A L F H I L M V L I - +120
 121 ACTGACTTTCAGCACAAAAGTGAATCCCTCACTTTTCTGTGAGCTGGCTCATATCAT
 L T F S T K T E I P H F F C E L A H I I - +180
 181 CAAACTTACCCTGTTCCGATAATTTTATCAACTATCTGCTGATATACACAGAGTCTGCTT
 K L T C S D N F I N Y L L I Y T E S V L - +240
 241 ATTTTGGTGTTCATATGTAGGATCATTTGTCTTATATTACACTGTATCCTCAGT
 F F G V H I V G I I L S Y I Y T V S S V - +300

Figure 30B

301 TTTAAGAATGTCATTATGGGAGGAATGTATAAGCCTTTTCAACATGTGGATCTCATTT
 -----+-----+-----+-----+-----+-----+-----+360
 L R M S L L G G M Y K A F S T C G S H L -

 361 GTCGGTGTCTCTGTTTATGGCACAGCCTTMTGGGTACACATAAGCTCTCCACTTACTG
 -----+-----+-----+-----+-----+-----+-----+420
 S V V S V L W H R F W G T H K L S T Y * -

 421 ACTCTCCAAGGAAGACTGTAGTGGCTTCAGTGATGTACACTGTGGTTACTCAGATGCTG
 -----+-----+-----+-----+-----+-----+-----+479
 L S K E D C S G F S D V H C G Y S D A -

